CLAIM AMENDMENTS

- 1. (Original) A microporous halopolymer membrane comprising:
- a first surface and a second surface and a thickness defined by the first and second surfaces, the membrane having a critical wetting surface tension (CWST) of at least about 40 dynes/cm (.40 erg/mm²) through the thickness of the membrane, a wetting/dewetting ratio of at least about .7 for 2 or more cycles, and wherein at least one surface has a fluorine/carbon (F/C) ratio of about 1.2 or more.
 - 2. (Original) A microporous halopolymer membrane comprising:
- a first surface and a second surface and a thickness defined by the first and second surfaces, wherein at least one surface has a F/C ratio of about 1.2 or more, the membrane having a wetting/dewetting ratio of at least about .7 for 2 or more cycles, and a low level of extractables.
- 3. (Original) The microporous halopolymer membrane of claim 2, having a CWST of at least 26 dynes/cm (.26 erg/mm²) through the thickness of the membrane.
- 4. (Original) The microporous halopolymer membrane of claim 3, having a CWST of at least about 40 dynes/cm (.40 erg/mm²).
- 5. (Currently Amended) The microporous halopolymer membrane any one of claims 1-4-of claim 1, having a water bubble point of at least about 33 psi.
 - 6. (Original) A porous halopolymer membrane comprising:
- a first surface and a second surface and a thickness defined by the first and second surfaces, the membrane having a CWST of at least about 40 dynes/cm (.40 erg/mm²) through the thickness of the membrane, and a wetting/dewetting ratio of at least about .7 for 2 or more cycles.
- 7. (Currently Amended) The halopolymer membrane of any one of claims 1-6-claim 1, having a nominal pore size in the range of from about 0.02 to about 0.1 microns.

- 8. (Currently Amended) The halopolymer membrane of any-one-of claims 1-7-claim 1, having a CWST of at least about 45 dynes/cm (.45 erg/mm²) through the thickness of the membrane.
- 9. (Original) The halopolymer membrane of claim 8, having a CWST of at least about 58 dynes/cm (.58 erg/mm²).
- 10. (Currently Amended) The halopolymer membrane of any one of claims 1-9 claim 2, having a water bubble point of at least about 45 psi (about 310 kPa).
- 11. (Currently Amended) The halopolymer membrane of any one of claims 1-10 claim 6, having a water bubble point of at least about 75 psi (about 516.8 kPa).
- 12. (Currently Amended) The halopolymer membrane of any one of claims 1-11 claim 1, wherein the halopolymer comprises a fluoropolymer.
- 13. (Original) The halopolymer membrane of claim 12, wherein the fluoropolymer comprises PTFE.
- 14. (Currently Amended) The halopolymer membrane of any one of claims 1-13 claim 1, which resists dewetting when contacted with hot water as a degassing fluid.
- 15. (Currently Amended) The halopolymer membrane of any one of claims 1-15 claim 1, wherein at least one surface has an oxygen/carbon (O/C) ratio of about 0.15 or less.
- 16. (Currently Amended) The halopolymer membrane of any one of claims 1-15 claim 2, having less than about 100 ppb extractable matter.
- 17. (Currently Amended) The halopolymer membrane of any-one of claims 1-16 claim 3, having less than about 30 ppb metal extractable matter.
- 18. (Currently Amended) The halopolymer membrane of any-one of claims 1-17 claim 6, having less than about 15 ppb metal extractable matter.
 - 19. (Original) A method for producing a porous halopolymer membrane comprising:

In re Appln. of DOUCOURE et al. Application No. Unassigned

exposing a porous halopolymer membrane to non-coherent UV radiation to produce a porous halopolymer membrane comprising a first surface and a second surface and a thickness defined by the first and second surfaces, the membrane having a CWST of at least 26 dynes/cm (.26 erg/mm²) through the thickness of the membrane, a water bubble point of at least about 33 psi, a wetting/dewetting ratio of at least about .7 for 2 or more cycles, and wherein at least one surface has a fluorine/carbon (F/C) ratio of about 1.2 or more.

20. (Original) A method for producing a porous halopolymer membrane comprising: contacting a porous halopolymer membrane with a liquid to provide a liquid-treated membrane; and

exposing the liquid-treated membrane to non-coherent UV radiation.

- 21. (Original) The method of claim 20, wherein the liquid-treated membrane is exposed to non-coherent UV radiation two or more times.
- 22. (Currently Amended) The method of claim 20-or 21, wherein the non-coherent UV radiation has a wavelength in the range of from about 140 to about 350 nm.
- 23. (Currently Amended) The method of any one of claims 20-22-claim 20, wherein contacting the porous halopolymer membrane with a liquid includes contacting the membrane with a first and a second, and optionally a third, liquid.
- 24. (Original) The method of claim 23, wherein the first, second, and optional third liquids are different.
- 25. (Currently Amended) The method of any one of claims 20-22-claim 21, wherein contacting the porous halopolymer membrane with a liquid comprises immersing the membrane in the liquid; and

exposing the liquid-treated membrane to non-coherent UV radiation comprises exposing the membrane to radiation while the membrane is immersed in the liquid.

26. (Currently Amended) The method of any one of claims 19-25 claim 20, wherein the non-coherent UV radiation is blackbody radiation.

In re Appln. of DOUCOURE et al. Application No. Unassigned

- 27. (Currently Amended) The method of any one of claims 19-26-claim 20, wherein the non-coherent UV radiation is high power radiation.
- 28. (Currently Amended) The method of any one of claims 19-27 claim 20, wherein the non-coherent UV radiation is vacuum UV radiation.
- 29. (Currently Amended) The method of any one of claims 19-28 claim 19, wherein the halopolymer membrane comprises a fluoropolymer.
 - 30. (Original) The method of claim 29, wherein the fluoropolymer comprises PTFE.
- 31. (Currently Amended) A porous halopolymer membrane produced by exposing a porous halopolymer membrane to non-coherent UV radiation according to any of claims 19-30-claim 19.
- 32. (Currently Amended) A process for treating a fluid comprising contacting the membrane of any of claims 1-18 and 31 claim 1 with the fluid for treating and recovering the treated fluid.
- 33. (Original) The process of claim 32, wherein the fluid for treating is a degassing fluid.